

CITY OF RIVERSIDE

February 15, 2001

U.S. EPA Region 9 ATTN: WTR-7, Biosolids Coordinator 75 Hawthorne Street San Francisco, CA 94105-3901

SUBJECT:

Annual Report for 2000, Biosolids Disposal

Dear Ms. Fondahl:

In compliance with 40 CFR Part 503, we are submitting the 2000 Annual Report of Biosolids Disposal for the City of Riverside Water Quality Control Plant.

If you have any questions or comments, please contact me at (909) 351-6187.

Sincerely,

John A. Claus

Acting Wastewater Systems Manager

Enclosures

cc: Mark Adelson, Regional Water Quality Control Board Admin. File

 $\verb|\PW-WQCP\VOL1\ADMIN\REGBD\SLUDGE\2000\503| Report Letter.doc$

			City o	f Rive	rside ye	ear 2000	Bioso	lid conv	ersi	on cha	art		
Land	from		amount sent in			convert to dry weight ww * 1-				amount sent in	convert		convert to dry weight ww * 1-
Applied	statements	Month	wet tons	WMT	Moisture %	moisture		Composted	Month				moisture
	Synagro	12	23.94	21.71	0.1932			One stop	12			0.1932	442.42
	Synagro	11	191.64	173.82	0.168	144.62		One stop	11	366.67			
	Synagro	10	222.76	202.04	0.81	38.39		One stop	10	557.05	505.24		96
	Synagro	9	711.04	644.91	0.1143	571.2		One stop	9		0	0.1143	
	Synagro	8	604.28	548.08	0.1205	482.04		One stop	8	553.06	501.63		
	Synagro	7	1694.49	1536.9	0.0987	1385.21		One stop	7		0	0.0987	
	Synagro	6	986.17	894.46	0.2596	662.26		One stop	6			0.2596	
	Synagro	5	1033.57	937.45	0.2455	707.31		One stop	5				
	Synagro	4	50.72	46	0.146	39.28		One stop	4	1059.53			
	Synagro	3	980.73	889.52	0.416	519.48		One stop	3	153.57	139.29		
	Synagro	2	0	0	0.2928	0		One stop	2	0	0		
	Synagro	1	0	0	0.2683	0		One stop	1	0		0.2683	
Totals and	averages		6499.34	5894.89		4567.31	Totals and	l averages		3946.09	3579.1		2601.87
reported 1	5895.06						reported 1	3579.1					
DMT	4567.31						DMT	2601.87					
	Reported	DMT			Calculated								
	produc	ed	5490.27		DMT sent	7169.18							

BACKGROUND INFORMATION

L	· · · · · · · · · · · · · · · · · · ·	Y	
1. NAME AND ADDRESS OF FACILITY	•	2. NAME AND ADDRESS OF FAC	CILITY OWNER
Facility Name Riverside Regional Water Qua	lity Control Plant	Facility Owner's Name City	of Riverside
Address 5950 Acorn Street		Address 3900	Main Street
City Riverside S Facility Contact John A. Claus P Stynatory	tale CA Zlp 92504 hone (909) 351-6187	Clly <u>Riverside</u>	State <u>CA</u> Zip 92522
3, REPORTING PERIOD			
FROM YEAR MO DAY TO YEAR MO DAY 2000 1.2 31		CA010530 NPDES PERMIT NUMBER	5. SLUDGE PERMIT NUMBER
6. FACILITY STATUS ☐ Preparer of sewage sludge ☐ Land applier ☐ Owner/operator of surface disposal site	 5	UME OF SEWAGE SLUDGE	8. FINAL USE AND DISPOSAL METHODS
[] Owner/operator of Inclnerator	Units: ☑ (metric tons; dr	y welght)	□ Incineration ☑ Other, explain <u>Composting</u>
9. Name and address of persons performing final un	se or disposal (attach additio	nal sheets if necessary)	
("I Same as preparer			•
, ,		Facility Name One Stop I	andscape Supply
Addross P.O. BOX /02/			andscape Supply Timoteo Canyon Road
City Corona S Facility Contact Ross Patten	tale CA Zlp 92878-7027	City Redlands	State <u>CA</u> ZIp 9 <u>2373</u>
Facility Contact Ross Pattern		Facility Contact Louis Curti	3 570 10 Motoria Thora (tibt)
Volume of sludge received from preparer 5,895,06 Final use/disposal method for sludge Land Ap	o Metric Tons (Wet) Olication	Final use/disposal method for s	n preparer 3,579.10 Metric Tons (Wet) ludge Composting
		Facility Name	TO SET TO THE SET OF T
Facility Name		Address	
Chy	iale 7lo	City	State Zlp
1 Facility Contact		Facility Contact	Citio 21/
Volume of sludge received from preparer Final use/disposal method for sludge		I Volume of sludge received from	n preparer
		I that devices been the thee tot e	
10. CERTIFICATION I certify under penalty of law that this document and assure that qualified personnel properly gather and e gathering the information submitted, it is to the best submitting false information.	all attachments were prepar valuate the information sub of my knowledge and belief	ed under my direction or supervisio mitted. Based on my inquiry of the true, accurate, and complete. I am	en in accordance with a system designed to person or persons directly responsible for aware that there are significant penalties for
Name and Official Title (type or print)			Area Code and Phone
John A. Claus, Acting Wastewater System	is Manager		(909) 351–6187
Signature		•	Date Signed 02/15/01

A Par 505 Reporting Forms

VECTOR ATTRACTION REDUCTION AND PATHOGEN REDUCTION

Facility Name <u>Riverside Regional Water</u> Quality Control Plant	2. Facility Owner's Name <u>City of</u> Riverside
	Address 3900 Main Street
	City Riverside
	State <u>CA</u> Zip <u>92522</u>
лис <u>ст</u> пр <u>72304</u>	
3. Monitoring Period:	Reporting Period:
From <u>01/01/00</u> To <u>02/29/0</u>	<u>. </u>
4. NPDES Permit No: <u>CA 0105350</u>	
5. Facility Latitude: 33° 57' 55" N	Facility Longitude:117° 27' 28" W
Site Map Attached Ye	s No
units or activities and describes operating parameters such as treatment capacity, slupercent solids. Also include a description operating parameters.	eduction procedures that identifies specific treatment procedures. Include target values for all operating adge detention time, operating temperature, pH, and a of standard procedures for regular evaluation of the
VECTOR ATTRACTION REDUCTION	ON - OPTION 1 [40 CFR 503.33 (B)(1)]
	1 (Mass of volatile solids in the sewage sludge been
reduced by at least 38%) to demonstrate of	compliance with the regulations.
a. Alternative 1 - Time and Temperatur	
Has the mass of volatile solids in the	sewage sludge been reduced by at least 38%?
	yes no
Frequency volatile solids reduction i	s verified 38 per period.
PATHOGENS REDUCTION CLAS	S B - ALTERNATIVE 2 [40 CFR 503.32 (B) (3)]
8. Anaerobic Digestion	
	ge sludge between 15 days at 35°C to 55°C and 60
days at 20°C?	·
•	
	yes no
	V
b. Provide the frequency of temperature	measurements (i.e. continuous, 1 per hour, etc.)
- · · · · · · · · · · · · · · · · · · ·	measurements (i.e. continuous, 1 per hour, etc.)
- · · · · · · · · · · · · · · · · · · ·	measurements (i.e. continuous, 1 per hour, etc.) shifts/day
1/shift, 3	· · · · · · · · · · · · · · · · · · ·

MONITORING PERIOD

January 1, 2000 through February 29, 2000

Parameter	Table 3 Pollutant Concentrations	Maximum Pollutant Concentration MG/KG	Frequency of Analysis	Sample Type, Grab or Composite	Analytical Method
Arsenic	41	11.8	2	Composite	6010B ICP
Cadmium	39	2.92	2	Composite	6010B ICP
Chromium	1200	43.8	2	Composite	6010B ICP
Copper	1500	768	2	Composite	6010B ICP
Lead	300	92.0	2	Composite	6010B ICP
Mercury	17	2.15	2	Composite	245.5 & 245.2
Molybdenum		17.5	2	Composite	6010B ICP
Nickel	420	35.8	2	Composite	6010B ICP
Selenium	36	9.25	2	Composite	6010B ICP
Zinc	2800	890	2	Composite	6010B ICP

Certification

I certify under penalty of law that this document and all attachments were prepared under my supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information submitted, it is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information.

John A. Claus, Operations Manager	(909) 351-6187
Name and Title (Type or print)	Area Code and Phone
De A Claur	3/22/00
Consture	Date Signed

Table 3 soncentration limits are referenced to demonstrate that the sludge is of exceptional quality in regards to metals.

Biosolids Processing Data January - February 2000

	Digester Influent	Digester Effluent	AverageVolatile	Belt Press Discharge	Digester #1 Temperature	Digester #2	Digester	
	Volatile Suspended Solids	Volatile Suspended Solids	Suspended Solids Reduction					
DATE	%	%	%	Dry Tons	°C	°C	Measured	Required
1/1/2000				9.65	37.0	37.0	16.7	9.0
1/2/2000				0.00	37.1	37.4	17.3	8.3
1/3/2000	82	69	50	19.40	37.0	37.0	17.1	9.0
1/4/2000	77	67	38	24.31	37.0	37.0	17.1	9.0
1/5/2000	81	67	53	40.21	37.0	37.0	16.6	9.0
1/6/2000	82	66	57	13.59	37.0	37.1	17.1	8.9
1/7/2000	82	67	55	12.81	37.3	37.1	17.8	8.4
1/8/2000				0.00	37.2	37.2	17.9	8.4
1/9/2000				0.00	38.0	38.0	17.9	6.0
1/10/2000	81	67	52	23.76	37.3	37.1	18.4	8.4
1/11/2000	81	67	53	27.76	37.0	37.0	18.5	9.0
1/12/2000	72	68	19	24.64	37.0	37.0	18.2	9.0
1/13/2000	82	67	56	12.44	37.0	37.2	19.0	8.8
1/14/2000	82	66	57	26.83	37.1	37.1	19.5	8.7
1/15/2000				0.00	37.1	37.1	21.5	8.7
1/16/2000				6.33	37.5	37.5	22.0	7.5
1/17/2000	81	67	51	24.71	37.5	37.0	21.8	8.3
1/18/2000	80	67	50	24.97	37.0	37.0	21.0	9.0
1/19/2000	81	67	51	29.86	37.6	37.6	20.4	7.2
1/20/2000	81	67	53	22.65	37.3	37.3	20.2	8.1
1/21/2000	81			11.34	37.0	37.0	19.8	9.1
1/22/2000				0.00	37.0	37.0	22.3	9.0
1/23/2000				0.00	37.0	37.0	19.6	9.0
1/24/2000	79	67	47	26.09	37.0	37.0	18.9	9.0
1/25/2000	80	67	50	25.33	37.2	37.2	19.1	8.5
1/26/2000	80	67	50	30.36	37.2	37.2	18.6	8.5
1/27/2000	80	66	53	24.94	37.0	37.0	18.5	9.0
1/28/2000	83	67	57	14.54	37.0	37.0	19.8	9.0
1/29/2000				0.00	37.0	37.0	22.2	9.0
1/30/2000				0.00	37.0	37.5	19.2	8.3
1/31/2000	81	66	53	23.76	37.0	37.0	18.6	9.0
2/1/2000	81	67	51	19.16	36.8	36.8	19.3	9.5
2/2/2000	81	67	54	19.07	36.5	36.2	19.4	11.0
2/3/2000	80	66	52	23.17	36.2	36.2	20.0	11.5
2/4/2000	81	67	53	22.76	36.6	36.2	20.1	10.9
2/5/2000		***************************************		0.00	36.0	36.0	20.4	12.0
2/6/2000				0.00	37.0	37.0	19.4	9.0

Biosolids Processing Data January - February 2000

	Digester Influent	Digester Effluent	AverageVolatile	Belt Press Discharge	Digester #1	Digester #2	Dige	ster
	Volatile Suspended Solids	Volatile Suspended Solids	Suspended Solids Reduction		Temperature	Temperature	Detention T	ime (days)
DATE	%	%	%	Dry Tons	°C	°C	Measured	Required
2/7/2000	81	67	53	26.98	37.0	37.3	19.2	8.6
2/8/2000	80	66	52	27.93	37.2	36.2	18.4	10.0
2/9/2000	81			19.98	37.0	36.8	17.7	9.3
2/10/2000	81	68	50	19.69	37.0	37.0	18.6	9.0
2/11/2000	82			23.92	37.0	37.0	18.8	9.0
2/12/2000				0.00	37.0	37.0	18.5	9.0
2/13/2000				0.00	37.0	37.0	18.2	9.0
2/14/2000	81	68	49	18.08	37.0	37.0	18.3	9.0
2/15/2000	81	67	52	25.44	37.2	37.8	18.0	7.5
2/16/2000	81	67	52	33.75	37.3	37.3	17.2	8.1
2/17/2000	80	68	48	11.50	37.2	37.0	16.3	8.8
2/18/2000	81	65	55	25.94	37.0	37.0	16.1	9.0
2/19/2000				0.00	37.0	37.0	17.6	9.0
2/20/2000				0.00	37.0	37.0	17.5	9.0
2/21/2000	80	68	46	14.67	37.0	37.6	17.2	8.1
2/22/2000	79	68	43	20.89	37.0	37.0	15.6	9.0
2/23/2000	79	67	46	33.38	37.0	37.0	15.8	9.0
2/24/2000	79	67	45	26.74	37.0	37.2	16.0	8.8
2/25/2000	78	66	45	22.16	37.0	37.5	15.5	8.3
2/26/2000				0.00	37.0	37.0	13.8	9.0
2/27/2000				0.00	37.0	37.0	15.0	9.0
2/28/2000	79	66	48	26.93	36.6	37.0	15.1	9.6
2/29/2000	79	69	41	25.39	36.4	36.2	14.9	11.1
) (: · ·	70		10		250		100	
Minimum	72	65	19	0.00	36.0	36.0	13.8	6.0
Maximum	83	69	57	40.21	38.0	38.0	22.3	12.0
Average	80	67	50	16.31	37.0	37.0	18.4	8.9
Total				962.41				

VECTOR ATTRACTION REDUC	TION AND PATHOGEN REDUCTION
1. Facility Name Riverside Regional Water	2. Facility Owner's Name City of
Quality Control Plant	Riverside
Address <u>5950 Acorn St.</u>	Address 3900 Main Street
City Riverside	City Riverside
State <u>CA</u> Zip <u>92504</u>	State <u>CA</u> Zip <u>92522</u>
3. Monitoring Period:	Reporting Period:
From <u>03/01/00</u> To 0 <u>4/30/00</u> 4. NPDES Permit No: <u>CA 0105350</u>	
F. 101 DES 1 climit 100 CA 0105350	Sludge Permit No: N/A
5. Facility Latitude: 33° 57' 55" N	Facility Longitude:117° 27' 28" W
Site Map Attached Yes	No
units or activities and describes operating p parameters such as treatment capacity, slud percent solids. Also include a description of operating parameters.	luction procedures that identifies specific treatment rocedures. Include target values for all operating ge detention time, operating temperature, pH, and of standard procedures for regular evaluation of the Schematic diagram or drawing attached.
VECTOR ATTRACTION REDUCTION	- OPTION 1 [40 CFR 503.33 (B)(1)]
. The City of Riverside utilizes Alternative 1	(Mass of volatile solids in the sewage sludge been
reduced by at least 38%) to demonstrate con	npliance with the regulations.
Alternation 1 Trim 1 Tr	
a. Alternative 1 - Time and Temperature	
rias the mass of volatile solids in the se	ewage sludge been reduced by at least 38%?
	yes no
	✓
Frequency volatile solids reduction is v	l l
	per <u>periou</u> .
PATHOGENS REDUCTION CLASS I	B - ALTERNATIVE 2 [40 CFR 503.32 (B) (3)]
. Anaerobic Digestion	
•	sludge between 15 days at 35°C to 55°C and 60
• •	
	yes no
b. Provide the frequency of temperature me	asurements (i.e. continuous, 1 per hour, etc.)
1/shift, 3 shi	ifts/day

c. Provide the average detention time and digester operating temperature for the reporting period <u>16.3</u> days at <u>37.0</u> °C.

MONITORING PERIOD

March 1, 2000 through April 30, 2000

Parameter	Table 3 Pollutant Concentrations	Maximum Pollutant Concentration MG/KG	Frequency of Analysis	Sample Type, Grab or Composite	Analytical Method
Arsenic	41	11.5	2	Composite	6010B ICP
Cadmium	39	5.93	2	Composite	6010B ICP
Chromium	1200	61.9	2	Composite	6010B ICP
Copper	1500	838	2	Composite	6010B ICP
Lead	300	69.5	2	Composite	6010B ICP
Mercury	17	1.28	2	Composite	245.5
Molybdenum		19.4	2	Composite	6010B ICP
Nickel	420	45.6	2	Composite	6010B ICP
Selenium	36	7.3	2	Composite	6010B ICP
Zinc	2800	985	2	Composite	6010B ICP

Certification

I certify under penalty of law that this document and all attachments were prepared under my supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information submitted, it is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information.

John A. Claus, Operations Manager	(909) 351-6187
Name and Title (Type or print)	Area Code and Phone
a Ca	5/23/00
Signature	Date Signed

Table 3 concentration limits are referenced to demonstrate that the sludge is of exceptional quality in regards to metals.

Monthly Sludge Disposal Report

March 2000
Month Year

During this month, 980.73 tons of Biosolids were removed by our subcontractor, Synagro of California, Inc., located at P.O. Box 7027, Corona, CA, 92878-7027. They are currently performing land application of the biosolids. During this month, 153.57 tons of Biosolids were removed by our subcontractor, One Stop Landscape Supply, located at 13024 San Timoteo Canyon Road, Redlands, CA 92373. They are currently performing composting with the biosolids.

Laboratory analysis data is attached certifying the Biosolids generated at this plant to be a clean Class B sludge.

Digester data is attached certifying the Biosolids have met the time and temperature requirements for Class B Pathogen Reduction through Anaerobic Digestion as well as the Vector Attraction requirement of more than 38% volatile solids reduction.

"I certify, under penalty of law, that the Class B pathogen requirements in 503.32(b) and the vector attraction reduction requirement in 503.33(b)1 have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

Signature

Date

4/25/00

Monthly Sludge Disposal Report

April 2000 Month Year

During this month, 50.72 tons of Biosolids were removed by our subcontractor, Synagro of California, Inc., located at P.O. Box 7027, Corona, CA, 92878-7027. They are currently performing land application of the biosolids. During this month, 1,059.53 tons of Biosolids were removed by our subcontractor, One Stop Landscape Supply, located at 13024 San Timoteo Canyon Road, Redlands, CA 92373. They are currently performing composting with the biosolids.

Laboratory analysis data is attached certifying the Biosolids generated at this plant to be a clean Class B sludge.

Digester data is attached certifying the Biosolids have met the time and temperature requirements for Class B Pathogen Reduction through Anaerobic Digestion as well as the Vector Attraction requirement of more than 38% volatile solids reduction.

"I certify, under penalty of law, that the Class B pathogen requirements in 503.32(b) and the vector attraction reduction requirement in 503.33(b)1 have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

Signature

Date

5/23/00

Biosolids Processing Data March - April 2000

	Digester Influent			Belt Press Discharge	Digester #1	Digester #2	Dig	ester
	Volatile Suspended Solids	Volatile Suspended Solids	Suspended Solids Reduction		Temperature	Temperature	Detention	Time (days)
DATE	%	%	%	Dry Tons	°C	°C	Measured	Required
3/1/2000	81			18.63	34.3	36.5	15.2	13.8
3/2/2000	80	66	52	24.39	36.5	36.0	14.9	11.3
3/3/2000	80	66	52	22.86	36.8	36.0	15.5	10.8
3/4/2000				18.47	36.0	36.0	15.1	12.0
3/5/2000			(C) (A) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	22.03	37.0	37.0	15.2	9.0
3/6/2000	80	65	55	22.48	37.5	37.0	15.7	8.3
3/7/2000	80	66	5 1	24.07	37.0	37.5	16.9	8.3
3/8/2000	80	66	52	32.34	36.6	37.5	15.9	8.9
3/9/2000	79			19.75	35.8	37.0	15.9	10.8
3/10/2000	79	66	48	16.29	35.5	37.0	15.4	11.3
3/11/2000			***************************************	0.00	35.0	37.0	15.7	12.0
3/12/2000				0.00	34.5	37.1	15.8	12.6
3/13/2000	79	66	50	26.61	35.0	37.0	16.0	12.0
3/14/2000	80	65	53	21.38	36.2	37.2	16.2	10.0
3/15/2000	80	65	54	28.40	37.0	37.0	16.1	9.0
3/16/2000	81			22.05	37.2	37.2	16.6	8.5
3/17/2000	0.000 (700 000 000 000 000 000 000 000 000			22.77	37.2	37.2	16.4	8.5
3/18/2000				0.00	37.0	37.0	15.6	9.0
3/19/2000				0.00	37.2	37.2	16.4	8.4
3/20/2000	79	66	49	24.02	37.0	37.0	16.2	9.0
3/21/2000	79	65	51	23.49	37.0	37.0	16.1	9.0
3/22/2000	80		~~~~	29.35	37.0	37.0	15.6	9.0
3/23/2000		65		20.16	37.0	37.0	18.2	9.0
3/24/2000	80	66	52	23.29	37.0	37.0	14.5	9.0
3/25/2000				0.00	37.0	37.0	15.2	9.0
3/26/2000				0.00	37.0	37.0	15.1	9.0
3/27/2000	79	66	47	23.97	37.0	37.0	15.2	9.0
3/28/2000	79	66	50	25.10	37.3	37.5	16.0	7.8
3/29/2000	80	65	54	30.43	37.0	37.0	16.5	9.0
3/30/2000	79	63	56	23.83	37.0	37.0	16.7	9.0
3/31/2000	80	65	. 53	23.52	37.0	37.0	16.8	9.0
4/1/2000				0.00	37.0	37.0	16.8	9.0
4/2/2000				0.00	37.0	37.0	16.6	9.0
4/3/2000	80	66	51	23.52	37.0	37.0	17.2	9.0
4/4/2000	80	66	51	19.62	37.2	37.2	16.6	8.5
4/5/2000	80	65	52	28.43	37.0	37.0	17.0	9.0
4/6/2000	79	66	49	24.72	37.0	37.0	17.3	9.0

Biosolids Processing Data March - April 2000

	Digester Influent	Digester Effluent	AverageVolatile Belt Press Discharge		Digester #1	Digester #2	Dig	ester
	Volatile Suspended Solids	Volatile Suspended Solids	Suspended Solids Reduction		Temperature	Temperature	Detention '	Time (days)
DATE	%	%	%	Dry Tons	°C	°C	Measured	Required
4/7/2000	80			12.13	37.0	37.5	17.7	8.3
4/8/2000				0.00	37.0	37.0	17.5	9.0
4/9/2000				0.00	37.0	37.0	17.3	9.0
4/10/2000	79	67	46	23.29	37.0	37.0	16.6	9.0
4/11/2000	80			17.49	37.0	37.2	15.8	8.8
4/12/2000	80	67	51	31.10	37.5	37.5	15.9	7.5
4/13/2000	80	67	48	21.49	37.0	37.0	17.6	9.0
4/14/2000	81	67	52	20.16	37.0	37.0	15.8	9.0
4/15/2000	*			0.00	37.0	37.0	16.2	9.0
4/16/2000				0.00	37.3	37.5	16.4	7.8
4/17/2000	80	66	52	24.93	37.0	37.0	14.9	9.0
4/18/2000	80	66	52	25.99	36.5	37.0	14.8	9.8
4/19/2000	81	67	52	32.30	36.6	37.0	16.1	9.6
4/20/2000	82	67	54	24.88	36.5	37.0	15.9	9.8
4/21/2000	81	66	55	12.44	36.0	37.0	16.0	10.5
4/22/2000	garanti gar	\$ 100 mm	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.00	37.0	37.1	19.4	8.9
4/23/2000				0.00	37.1	37.1	15.5	8.7
4/24/2000	81	67	52	24.77	37.6	37.6	16.7	7.2
4/25/2000		67		23.25	37.2	37.2	16.9	8.5
4/26/2000	82	65	59	32.06	37.0	37.0	17.0	9.0
4/27/2000	81	66	54	21.29	38.0	38.0	16.8	6.0
4/28/2000	80			0.00	37.3	37.5	16.7	7.8
4/29/2000		&		0.00	37.0	37.0	17.2	9.0
4/30/2000				7.72	37.0	37.0	16.8	9.0
Minimum	79	63	46	0.00	34.3	36.0	14.5	6.0
Minimum Maximum		67	59	32.34	38.0	38.0	19.4	13.8
	80	66	59	17.07	36.8	37.1	16.3	9.2
Average	δU	00	54	1041.25	30.0	3/.1	10.5	7.2
Total				1041.25				

		35555550
VECTOR ATTRACTION REDUCT	TION AND PATHOGEN REDUCTION	
Facility Name <u>Riverside Regional Water</u> Quality Control Plant	2. Facility Owner's Name City of Riverside	
	Address 3900 Main Street	
City <u>Riverside</u> State <u>CA</u> Zip <u>92504</u>	City Riverside State CA Zip 92522	
	Reporting Period: 0 From 05/01/00 To 06/30/00 Bludge Permit No: N/A	-
5. Facility Latitude: 33° 57' 55" N	Facility Longitude: 117° 27' 28" W	-
Site Map Attached Yes	No	
units or activities and describes operating proparameters such as treatment capacity, sludger percent solids. Also include a description of operating parameters.	luction procedures that identifies specific treatm rocedures. Include target values for all operating ge detention time, operating temperature, pH, and of standard procedures for regular evaluation of Schematic diagram or drawing attach	g nd the
VECTOR ATTRACTION REDUCTION 7. The City of Riverside utilizes Alternative 1.	W - OPTION 1 [40 CFR 503.33 (B)(1)] (Mass of volatile solids in the sewage sludge by	l een
reduced by at least 38%) to demonstrate con	mpliance with the regulations.	
a. Alternative 1 - Time and Temperature Has the mass of volatile solids in the se	ewage sludge been reduced by at least 38%?	
	yes n	10
Frequency volatile solids reduction is v	verified 41 per period .	
PATHOGENS REDUCTION CLASS	B - ALTERNATIVE 2 [40 CFR 503.32 (B) (3)]
8. Anaerobic Digestion a. Was the residence time for the sewage sl at 20°C?	ludge between 15 days at 35°C to 55°C and 60 of	days
at 20 C:	yes	10
b. Provide the frequency of temperature me	easurements (i.e. continuous, 1 per hour, etc.)	

1/shift, 3 shifts/day

period 16.1 days at 37.7 °C.

c. Provide the average detention time and digester operating temperature for the reporting

MONITORING PERIOD

May 1, 2000 through June 30, 2000

Parameter	Table 3 Pollutant Concentrations	Maximum Pollutant Concentration MG/KG	Frequency of Analysis	Sample Type, Grab or Composite	Analytical Method
Arsenic	41	9.69	2	Composite	6010B ICP
Cadmium	39	4.44	2	Composite	6010B ICP
Chromium	1200 [.]	37.2	2	Composite	6010B ICP
Copper	1500	523	2	Composite	6010B ICP
Lead	300	49.2	2	Composite	6010B ICP
Mercury	17	1.22	2	Composite	245.5
Molybdenum		12.7	2	Composite	6010B ICP
Nickel	420	28.9	2	Composite	6010B ICP
Selenium	36	6.46	2	Composite	6010B ICP
Zinc	2800	628	2	Composite	6010B ICP

Certification

I certify under penalty of law that this document and all attachments were prepared under my supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information submitted, it is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information.

John A. Claus, Operations Manager	(909) 351-6187
Name and Title (Type or print)	Area Code and Phone
A Cans	7/25/00
Signature	Date Signed

Table 3 concentration limits are referenced to demonstrate that the sludge is of exceptional quality in regards to metals.

Monthly Sludge Disposal Report

<u>May</u> Month <u>2000</u> Year

During this month, 1,033.74 tons of Biosolids were removed by our subcontractor, Synagro of California, Inc., located at P.O. Box 7027, Corona, CA, 92878-7027. They are currently performing land application of the biosolids. During this month, 464.98 tons of Biosolids were removed by our subcontractor, One Stop Landscape Supply, located at 13024 San Timoteo Canyon Road, Redlands, CA 92373. They are currently performing composting with the biosolids.

Laboratory analysis data is attached certifying the Biosolids generated at this plant to be a clean Class B sludge.

Digester data is attached certifying the Biosolids have met the time and temperature requirements for Class B Pathogen Reduction through Anaerobic Digestion as well as the Vector Attraction requirement of more than 38% volatile solids reduction.

"I certify, under penalty of law, that the Class B pathogen requirements in 503.32(b) and the vector attraction reduction requirement in 503.33(b)1 have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

Signature

Date

6/23/00

Monthly Sludge Disposal Report

June	2000
Month	Year

During this month, 986.17 tons of Biosolids were removed by our subcontractor, Synagro of California, Inc., located at P.O. Box 7027, Corona, CA, 92878-7027. They are currently performing land application of the biosolids. During this month, 186.63 tons of Biosolids were removed by our subcontractor, One Stop Landscape Supply, located at 13024 San Timoteo Canyon Road, Redlands, CA 92373. They are currently performing composting with the biosolids.

Laboratory analysis data is attached certifying the Biosolids generated at this plant to be a clean Class B sludge.

Digester data is attached certifying the Biosolids have met the time and temperature requirements for Class B Pathogen Reduction through Anaerobic Digestion as well as the Vector Attraction requirement of more than 38% volatile solids reduction.

"I certify, under penalty of law, that the Class B pathogen requirements in 503.32(b) and the vector attraction reduction requirement in 503.33(b)1 have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

Signature

Date

7/25/00

Biosolids Processing Data May - June 2000

	Digester Influent		AverageVolatile	Belt Press Discharge	Digester #1	Digester #2	Digester	
	Volatile Suspended Solids	Volatile Suspended Solids	Suspended Solids Reduction	3	Temperature	Temperature		
DATE	%	%	%	Dry Tons	°C	°C		Required
5/1/2000				23.18	37.6	37.3	16.6	7.6
5/2/2000	80	67	48	19.85	38.0	37.6	16.1	6.6
5/3/2000	80	68	47	30.55	37.3	37.3	15.5	8.3
5/4/2000	80	67	50	18.46	37.0	37.5	15.3	8.3
5/5/2000	80	66	51	15.27	37.0	37.0	15.3	9.0
5/6/2000				***************************************	37.0	37.0	15.8	9.0
5/7/2000				10.81	37.8	37.5	16.6	7.0
5/8/2000	80	67	49	23.73	38.0	37.3	15.9	7.1
5/9/2000	80	67	50	23.16	37.3	37.5	15.9	7.1
5/10/2000	80	68	45	30.30	37.0	37.0	16.2	9.0
5/11/2000	79	67	47	12.24	35.5	37.0	15.9	11.3
5/12/2000	79	66	49	24.64	37.0	37.0	15.6	9.0
5/13/2000				······································	37.0	37.0	15.6	9.0
5/14/2000			***************************************		37.5	37.3	16.1	7.9
5/15/2000	80	67	48	25.12	38.0	37.0	14.6	7.9
5/16/2000	80	66	50	25.22	37.5	37.3	15.4	7.5 7.8
5/17/2000	80	67	49	31.04	38.0	37.6	15.4	7.6 6.6
5/18/2000	80	65	53	21.57	38.6	37.5	15.0	5.9
5/19/2000	80	67	50	26.25	36.6	36.6	14.8	10.2
5/20/2000					37.0	37.0	14.8	9.0
5/21/2000				***************************************	36.7	37.8	15.3	9.0 8.3
5/22/2000	79	67	47	23.59	37.8	37.5	19.3	7.1
5/23/2000	79	67	46	20.35	37.5	37.5	16.1	7.1
5/24/2000				30.09	36.6	37.3 37.3	15.4	
5/25/2000	80	67	49	18.97	37.2	38.0	15.4	9.1
5/26/2000	80	66	51	10.07	37.0	38.0		7.3
5/27/2000				***************************************	37.0		16.3	7.5
5/28/2000				11.33	38.0	37.0 38.0	15.3	9.0
5/29/2000	80	66	53	22.85	38.0	38.0	15.4	6.0
5/30/2000	80	68	48	11.13	38.0	37.6	16.2	6.6
5/31/2000	80	67	49	32.68	36.0	38.0	15.6	6.0
6/1/2000	80	67	50	25.00		37.8	16.1	6.5
5/2/2000	80	66	51	25.03	38.0	38.0	16.3	6.0
5/3/2000	***************************************			0.00	38.0	38.0	17.1	6.0
5/4/2000	······································			0.00	38.0	38.0	16.8	6.0
5/5/2000	79	66	49		38.0	38.0	16.8	6.0
5/6/2000	79	66	50	22.78	38.0	38.0	16.6	6.0
			50	23.45	38.0	38.0	16.8	6.0

Biosolids Processing Data May - June 2000

	Digester Influent	Digester Effluent	AverageVolatile	Belt Press Discharge	Digester #1	Digester #2	Digester	
	Volatile Suspended Solids	Volatile Suspended Solids	Suspended Solids Reduction	8	Temperature	Temperature	Detention 7	
DATE	%	%	%	Dry Tons	°C	°C	Measured	
6/7/2000	80	67	49	31.17	38.0	38.0	16.9	6.0
6/8/2000	80	66	51	22.85	. 38.0	38.0	16.2	6.0
6/9/2000	80	67	49	18.49	38.0	38.0	15.8	6.0
6/10/2000				0.00	38.0	38.0	15.7	6.0
6/11/2000				0.00	38.0	38.0	16.0	6.0
6/12/2000	80	66	51	23.32	38.0	38.0	15.5	6.0
6/13/2000	80	66	52	23.63	38.0	38.0	15.1	6.0
6/14/2000	80			16.58	38.0	38.0	15.1	6.0
6/15/2000	79	66	49	16.38	38.0	38.0	14.8	6.0
6/16/2000	80	67	50	23.69	38.0	38.0	15.7	6.0
6/17/2000				0.00	38.0	38.0	14.0	6.0
6/18/2000				9.75	38.0	38.0	14.5	6.0
6/19/2000	79	66 -	49	26.16	38.0	38.0	14.7	6.0
6/20/2000	79	66	47	26.16	38.0	38.0	14.3	6.0
6/21/2000	79	67	47	34.36	38.0	37.8	14.3	6.3
6/22/2000	81	67	51	26.08	38.0	38.0	14.8	6.0
6/23/2000	79	67	48	17.93	38.0	38.0	14.8	6.0
6/24/2000				0.00	38.0	38.0	17.5	6.0
6/25/2000				0.00	38.0	38.0	19.8	6.0
6/26/2000	79	67	47	18.32	38.0	38.0	19.4	6.0
6/27/2000	79	66	49	23.61	38.0	38.0	19.3	6.0
6/28/2000	79	66	48	16.78	38.1	37.9	19.6	6.0
6/29/2000	79			14.42	38.0	38.0	19.1	6.0
6/30/2000	79	68	42	8.98	38.0	38.0	19.9	6.0
Minimum	79	65	42	0.00	35.5	36.6	14.0	5.9
Maximum	81	68	53	34.36	38.6	38.0	19.9	11.3
Average	80	67	49	19.02	37.7	37.7	16.1	7.0
Total				1027.31		<i>-</i> ,,,	AV-1	7.0

VECTOR ATTRACTION REDUCT	TON AND PATHOGEN REDUCTION
<u>Quality Control Plant</u> Address <u>5950 Acorn St.</u> City <u>Riverside</u>	2. Facility Owner's Name City of Riverside Address 3900 Main Street City Riverside State CA Zip 92522
3. Monitoring Period: From <u>07/01/00</u> To <u>08/31/00</u> 4. NPDES Permit No: <u>CA 0105350</u>	Reporting Period: From 07/01/00 To 08/31/00
5. Facility Latitude: 33° 57' 55" N	Facility Longitude:117° 27' 28" W
Site Map Attached Yes	No
units or activities and describes operating preparameters such as treatment capacity, sludg percent solids. Also include a description of operating parameters.	action procedures that identifies specific treatment ocedures. Include target values for all operating e detention time, operating temperature, pH, and standard procedures for regular evaluation of the Schematic diagram or drawing attached.
VECTOR ATTRACTION REDUCTION	- OPTION 1 [40 CFR 503.33 (B)(1)]
reduced by at least 38%) to demonstrate com a. Alternative 1 - Time and Temperature	-
Has the mass of volatile solids in the sev	wage sludge been reduced by at least 38%? yes no
Frequency volatile solids reduction is ve	erified 44 per period.
PATHOGENS REDUCTION CLASS B	- ALTERNATIVE 2 [40 CFR 503.32 (B) (3)]
8. Anaerobic Digestion	dge between 15 days at 35°C to 55°C and 60 days
	yes no
b. Provide the frequency of temperature mea	surements (i.e. continuous 1 per hour etc.)

c. Provide the average detention time and digester operating temperature for the reporting period 15.5 days at 38.1 °C.

1/shift, 3 shifts/day

MONITORING PERIOD

July 1, 2000 through August 31, 2000

Parameter	Table 3 Pollutant Concentrations	Maximum Pollutant Concentration MG/KG	Frequency of Analysis	Sample Type, Grab or Composite	Analytical Method
Arsenic	41	11.1	2	Composite	6010B ICP
Cadmium	39	3.15	2	Composite	6010B ICP
Chromium	1200	50.6	2	Composite	6010B ICP
Copper	1500	761	2	Composite	6010B ICP
Lead	300	59.7	2	Composite	6010B ICP
Mercury	17	1.36	2	Composite	245.5
Molybdenum		18.6	2	Composite	6010B ICP
Nickel	420	43.2	2	Composite	6010B ICP
Selenium	36	8.1	2	Composite	6010B ICP
Zinc	2800	836	2	Composite	6010B ICP

Certification

I certify under penalty of law that this document and all attachments were prepared under my supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information submitted, it is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information.

John A. Claus, Operations Manager	(909) 351-6187
Name and Title (Type or print)	Area Code and Phone
A Cla	9/11/00
Signature	Date Signed

Table 3 concentration limits are referenced to demonstrate that the sludge is of exceptional quality in regards to metals.

Monthly Sludge Disposal Report

July	_2000
Month	Year

During this month, 1,694.49 tons of Biosolids were removed by our subcontractor, Synagro of California, Inc., located at P.O. Box 7027, Corona, CA, 92878-7027. They are currently performing land application of the biosolids. During this month, 0 tons of Biosolids were removed by our subcontractor, One Stop Landscape Supply, located at 13024 San Timoteo Canyon Road, Redlands, CA 92373. They are currently performing composting with the biosolids.

Laboratory analysis data is attached certifying the Biosolids generated at this plant to be a clean Class B sludge.

Digester data is attached certifying the Biosolids have met the time and temperature requirements for Class B Pathogen Reduction through Anaerobic Digestion as well as the Vector Attraction requirement of more than 38% volatile solids reduction.

"I certify, under penalty of law, that the Class B pathogen requirements in 503.32(b) and the vector attraction reduction requirement in 503.33(b)1 have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

Signature

Date

8/28/00

Monthly Sludge Disposal Report

August 2000 Month Year

During this month, 604.28 tons of Biosolids were removed by our subcontractor, Synagro of California, Inc., located at P.O. Box 7027, Corona, CA, 92878-7027. They are currently performing land application of the biosolids. During this month, 553.06 tons of Biosolids were removed by our subcontractor, One Stop Landscape Supply, located at 13024 San Timoteo Canyon Road, Redlands, CA 92373. They are currently performing composting with the biosolids.

Laboratory analysis data is attached certifying the Biosolids generated at this plant to be a clean Class B sludge.

Digester data is attached certifying the Biosolids have met the time and temperature requirements for Class B Pathogen Reduction through Anaerobic Digestion as well as the Vector Attraction requirement of more than 38% volatile solids reduction.

"I certify, under penalty of law, that the Class B pathogen requirements in 503.32(b) and the vector attraction reduction requirement in 503.33(b)1 have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

Signature

Date

9/11/00

Biosolids Processing Data July - August 2000

	Digester Influent		AverageVolatile	Belt Press Discharge	Digester #1	Digester #2	Digester	
	Volatile Suspended Solids	Volatile Suspended Solids	Suspended Solids Reduction		Temperature	Temperature		
DATE	%	%	%	Dry Tons	°C	°C	Measured	
7/1/2000				0.00	38.0	38.0	19.8	6.0
7/2/2000				0.00	38.0	38.0	19.8	6.0
7/3/2000	80	66	51	9.99	38.0	38.0	19.7	6.0
7/4/2000	79	66	48	12.96	38.0	38.0	19.4	6.0
7/5/2000	80	66	50	34.71	38.0	38.2	19.3	5.8
7/6/2000	80	67	48	24.38	38.0	38.0	16.9	6.0
7/7/2000	80	67	50	11.82	38.0	38.0	15.6	6.0
7/8/2000				0.00	38.0	38.0	15.9	6.0
7/9/2000				0.00	38.0	38.0	15.6	6.0
7/10/2000	79	66	50	26.28	38.0	38.0	15.7	6.0
7/11/2000	80	66	50	23.72	38.0	38.0	15.8	6.0
7/12/2000	79	67	46	32.12	38.0	38.0	16.1	6.0
7/13/2000	79	68	42	23.64	38.0	38.0	16.2	6.0
7/14/2000	79	67	47	19.69	38.0	37.8	16.0	6.3
7/15/2000				0.00	38.0	38.0	15.9	6.0
7/16/2000				0.00	38.0	38.0	18.4	6.0
7/17/2000	79	67	46	25.42	38.0	38.0	17.7	6.0
7/18/2000	79	65	49	6.29	38.0	38.0	16.1	6.0
7/19/2000	79	66	47	29.79	38.0	38.0	16.1	6.0
7/20/2000	79	67	47	24.16	38.0	38.0	15.9	6.0
7/21/2000	79	67	45	16.48	38.0	38.0	15.6	6.0
7/22/2000			***************************************	0.00	38.0	38.0	15.7	6.0
7/23/2000				0.00	38.0	38.0	15.7	6.0
7/24/2000	79	66	48	24.41	38.0	38.0	16.4	6.0
7/25/2000	78	66	46	26.09	38.0	38.0	15.6	6.0
7/26/2000	79	67	45	24.19	38.0	38.0	15.1	6.0
7/27/2000	78	66	46	23.95	38.0	38.0	15.1	6.0
7/28/2000	78	66	46	23.18	38.0	38.0	14.9	6.0
7/29/2000		**************************************		0.00	38.0	38.0	15.3	6.0
7/30/2000				0.00	38.0	38.0	15.3	6.0
7/31/2000	78	66	44	23.63	38.0	38.0	15.4	6.0
8/1/2000	79	67	45	16.00	38.0	38.0	15.5	6.0
8/2/2000	79	67	46	31.86	38.0	38.0	13.4	6.0
8/3/2000	79	67	45	25.85	38.0	38.0	13.4	6.0
8/4/2000	78	66	44	12.51	38.0	38.0	12.9	6.0
8/5/2000				0.00	38.0	38.0	13.2	6.0
8/6/2000		**************************************		9.31	38.0	38.0	13.2	6.0

Biosolids Processing Data July - August 2000

	Digester Influent	Digester Effluent	AverageVolatile	Belt Press Discharge	Digester #1	Digester #2	Dige	ester
	Volatile Suspended Solids	Volatile Suspended Solids	Suspended Solids Reduction		Temperature	Temperature	Detention 7	
DATE	%	%	%	Dry Tons	°C	°C	Measured	Required
8/7/2000	77	66	42	26.78	38.0	38.0	14.0	6.0
8/8/2000	77	66	41	27.95	38.0	38.0	14.4	6.0
8/9/2000	77	66	43	38.95	38.0	38.0	14.3	6.0
8/10/2000	L	66	44	26.07	38.0	38.0	14.6	6.0
8/11/2000	77	66	43	24.90	38.0	38.0	14.7	6.0
8/12/2000				0.00	38.0	38.0	14.8	6.0
8/13/2000				0.00	38.0	38.0	15.4	6.0
8/14/2000	78	66	46	24.18	38.0	38.0	16.3	6.0
8/15/2000	78	65	47	24.39	38.0	38.0	16.0	6.0
8/16/2000	79	66	47	31.75	38.0	38.0	15.3	6.0
8/17/2000	78	66	46	23.27	38.0	38.0	14.7	6.0
8/18/2000	77	65	44	11.16	38.0	38.0	14.7	6.0
8/19/2000				0.00	38.0	38.0	14.5	6.0
8/20/2000				0.00	38.0	38.0	14.3	6.0
8/21/2000	78	65	49	24.53	38.0	38.0	14.1	6.0
8/22/2000	77	66	43	22.44	38.0	38.0	12.9	6.0
8/23/2000	79	66	47	32.58	38.2	38.2	13.7	5.4
8/24/2000	78	66	44	17.13	38.8	38.8	13.5	3.5
8/25/2000	78	66	47	25.14	38.6	38.6	14.0	4.2
8/26/2000				0.00	39.0	39.0	14.7	3.0
8/27/2000				0.00	39.0	38.0	14.7	4.5
8/28/2000	79	66	48	24.15	38.3	38.3	15.0	5.1
8/29/2000	79	65	49	22.30	38.6	38.5	15.0	4.4
8/30/2000	79	65	50	34.03	38.2	38.3	14.7	5.3
8/31/2000	80	65	53	26.01	38.0	38.0	15.1	6.0
Minimum	77	65	41	0.00	38.0	37.8	12.9	3.0
Maximum	80	68	53	38.95	39.0	39.0	19.8	6.3
Average	78	66	46	16.94	38.1	38.1	15.5	5.8
Total				1050.15				

VECTOR ATTRACTION REDUCTION AND PATHOGEN REDUCTION

Facility Name Riverside Regional Water	
	City Riverside
State <u>CA</u> Zip <u>92504</u>	
 Monitoring Period: From <u>09/01/00</u> To <u>10/31/0</u> NPDES Permit No: <u>CA 0105350</u> 	
5. Facility Latitude:33° 57' 55" N	Facility Longitude:117° 27' 28" W
Site Map Attached Yes	No
units or activities and describes operating parameters such as treatment capacity, slucture percent solids. Also include a description operating parameters.	duction procedures that identifies specific treatment procedures. Include target values for all operating dge detention time, operating temperature, pH, and of standard procedures for regular evaluation of the Schematic diagram or drawing attached.
VECTOR ATTRACTION REDUCTION	N - OPTION 1 [40 CFR 503.33 (B)(1)]
reduced by at least 38%) to demonstrate co	
a. Alternative 1 - Time and Temperature Has the mass of volatile solids in the s	sewage sludge been reduced by at least 38%? yes no
Frequency volatile solids reduction is	
DATHOCENS DEDUCTION OF ACC	D ALTEDNATIVE 2 140 CED 502 22 (D) (2)
PATHOGENS REDUCTION CLASS B. Anaerobic Digestion	B - ALTERNATIVE 2 [40 CFR 503.32 (B) (3)]
	sludge between 15 days at 35°C to 55°C and 60
•	yes no
b. Provide the frequency of temperature m 1/shift, 3 s	easurements (i.e. continuous, 1 per hour, etc.) hifts/day
c. Provide the average detention time and period <u>16.2</u> days at <u>37.4</u> °C.	digester operating temperature for the reporting

MONITORING PERIOD

September 1, 2000 through October 31, 2000

Parameter	Table 3 Pollutant Concentrations	Maximum Pollutant Concentration MG/KG	Frequency of Analysis	Sample Type, Grab or Composite	Analytical Method
Arsenic	41	7.06	2	Composite	6010B ICP
Cadmium	39	2.44	2	Composite	6010B ICP
Chromium	1200	56.48	2	Composite	6010B ICP
Copper	1500	860	2	Composite	6010B ICP
Lead	300	48.2	2	Composite	6010B ICP
Mercury	17	1.20	2	Composite	245.5
Molybdenum		20.3	2	Composite	6010B ICP
Nickel	420	37.9	2	Composite	6010B ICP
Selenium	36	6.88	2	Composite	6010B ICP
Zinc	2800	893	2	Composite	6010B ICP

Certification

I certify under penalty of law that this document and all attachments were prepared under my supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information submitted, it is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information.

John A. Claus, Operations Manager	(909) 351-6187
Name and Title (Type or print)	Area Code and Phone
A. Co.	11/21/00
Signature	Date Signed

Table 3 concentration limits are referenced to demonstrate that the sludge is of exceptional quality in regards to metals.

Monthly Sludge Disposal Report

September	2000
Month	Year

During this month, 711.04 tons of Biosolids were removed by our subcontractor, Synagro of California, Inc., located at P.O. Box 7027, Corona, CA, 92878-7027. They are currently performing land application of the biosolids. During this month, 0 tons of Biosolids were removed by our subcontractor, One Stop Landscape Supply, located at 13024 San Timoteo Canyon Road, Redlands, CA 92373. They are currently performing composting with the biosolids.

Laboratory analysis data is attached certifying the Biosolids generated at this plant to be a clean Class B sludge.

Digester data is attached certifying the Biosolids have met the time and temperature requirements for Class B Pathogen Reduction through Anaerobic Digestion as well as the Vector Attraction requirement of more than 38% volatile solids reduction.

"I certify, under penalty of law, that the Class B pathogen requirements in 503.32(b) and the vector attraction reduction requirement in 503.33(b)1 have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

Signature

Date

10/23/00

Monthly Sludge Disposal Report

October Month 2000 Year

During this month, 222.76 tons of Biosolids were removed by our subcontractor, Synagro of California, Inc., located at P.O. Box 7027, Corona, CA, 92878-7027. They are currently performing land application of the biosolids. During this month, 557.05 tons of Biosolids were removed by our subcontractor, One Stop Landscape Supply, located at 13024 San Timoteo Canyon Road, Redlands, CA 92373. They are currently performing composting with the biosolids.

Laboratory analysis data is attached certifying the Biosolids generated at this plant to be a clean Class B sludge.

Digester data is attached certifying the Biosolids have met the time and temperature requirements for Class B Pathogen Reduction through Anaerobic Digestion as well as the Vector Attraction requirement of more than 38% volatile solids reduction.

"I certify, under penalty of law, that the Class B pathogen requirements in 503.32(b) and the vector attraction reduction requirement in 503.33(b)1 have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

Signature

Date

11/21/00

Biosolids Processing Data September - October 2000

	Digester Influent	Digester Effluent	AverageVolatile	Belt Press Discharge	Digester #1	Digester #2	Digester	
	Volatile Suspended Solids	Volatile Suspended Solids	Suspended Solids Reduction		Temperature	Temperature	Detention 7	Γime (days)
DATE	%	%	%	Dry Tons	°C	°C	Measured	Required
9/1/2000	79	65	51	23.48	38.0	38.0	14.6	6.0
9/2/2000				0.00	38.0	38.0	15.0	6.0
9/3/2000				0.00	37.5	37.6	15.0	7.4
9/4/2000	79	65	49	26.34	37.5	37.8	16.9	7.0
9/5/2000	78	65	48	23.67	37.6	38.0	18.1	6.6
9/6/2000	79	66	49	21.70	37.8	37.9	18.0	6.4
9/7/2000	,	65	50	22.40	38.0	38.0	17.7	6.0
9/8/2000	79	65	51	9.67	38.0	38.0	17.6	6.0
9/9/2000				0.00	38.0	38.0	17.8	6.0
9/10/2000				0.00	37.3	37.3	16.1	8.1
9/11/2000	80	65	52	12.34	37.1	37.4	14.5	8.2
9/12/2000	79	66	50	24.71	37.5	37.6	14.8	7.4
9/13/2000	79	65	50	28.13	37.3	37.5	15.0	7.8
9/14/2000	78	66	46	14.64	37.0	37.0	15.0	9.0
9/15/2000	78	66	46	22.95	37.0	37.0	14.7	9.0
9/16/2000				0.00	37.0	37.0	15.0	9.0
9/17/2000				0.00	37.0	37.0	15.0	9.0
9/18/2000	79	65	5 1	24.47	37.0	37.0	15.0	9.0
9/19/2000	81	67	52	24.91	37.6	37.6	15.5	7.2
9/20/2000	80	65	53	28.96	37.4	37.0	16.1	8.4
9/21/2000	80	65	53	24.76	37.5	37.5	16.0	7.5
9/22/2000	80	64	57	22.28	37.3	37.3	16.2	8.1
9/23/2000				0.00	37.0	37.0	16.6	9.0
9/24/2000				0.00	37.2	37.2	17.4	8.5
9/25/2000	79	65	52	18.47	37.5	37.5	18.7	7.5
9/26/2000	80	65	53	25.35	37.5	37.5	19.2	7.5
9/27/2000	79	65	52	34.56	37.2	37.3	19.2	8.3
9/28/2000	80	66	52	12.15	37.5	37.5	18.8	7.5
9/29/2000	79	71	37	9.43	37.5	37.5	18.1	7.5
9/30/2000				0.00	37.1	37.1	18.7	8.7
10/1/2000				0.00	37.5	37.8	18.4	7.0
10/2/2000	79	65	51	23.32	37.4	37.5	17.7	7.6
10/3/2000	79	65	51	18.77	37.8	37.6	17.0	6.9
10/4/2000	<u> </u>			22.64	37.3	37.2	14.1	8.3
10/5/2000	79	65	52	25.94	37.6	37.5	16.6	7.4
10/6/2000	78	66	45	18.93	37.2	37.5	16.2	8.0
10/7/2000				0.00	37.5	37.5	17.3	7.5

Biosolids Processing Data September - October 2000

	Digester Influent	Digester Effluent	AverageVolatile	Belt Press Discharge	Digester #1	Digester #2	Digester	
	Volatile Suspended Solids	Volatile Suspended Solids	Suspended Solids Reduction		Temperature	Temperature	Detention 7	
DATE	%	%	%	Dry Tons	°C	°C	Measured	Required
10/8/2000				0.00	37.5	37.5	16.7	7.5
10/9/2000	80	67	48	22.88	37.5	37.3	16.7	7.8
10/10/2000	80	66	52	22.68	37.5	37.5	16.0	7.8 7.5
10/11/2000	80	66	52	17.43	37.3	37.3	16.7	8.1
10/12/2000	79	65	51	21.92	37.5	37.5	16.7	7.5
10/13/2000	80	67	48	21.59	37.5	37.5	16.8	7.5 7.5
10/14/2000				0.00	37.0	37.0	16.2	9.0
10/15/2000				0.00	37.3	37.3	15.2	8.1
10/16/2000	79	65	50	26.60	37.0	37.0	15.1	9.0
10/17/2000	80	66	51	22.51	37.0	37.2	15.4	8.8
10/18/2000	80	65	54	33.76	37.4	37.5	15.8	7.6
10/19/2000	80	67	51	24.74	37.2	37.5	15.8	8.0
10/20/2000	81	67	53	20.19	37.0	37.0	15.4	9.0
10/21/2000		***************************************		0.00	37.5	37.0	15.0	8.3
10/22/2000				0.00	37.2	37.2	15.0	8.5
10/23/2000	79	65	52	22.60	37.0	37.2	15.2	8.8
10/24/2000	80	66	50	25.50	37.0	37.2	14.6	8.8
10/25/2000		66		39.35	37.3	37.3	15.3	8.1
10/26/2000	80	***************************************		19.50	37.5	37.5	14.9	7.5
10/27/2000	80	67	48	27.29	37.0	37.0	15.0	9.0
10/28/2000				0.00	37.0	37.0	16.3	9.0
10/29/2000				0.00	37.2	37.0	15.3	8.8
10/30/2000	80	65	53	22.61	37.2	37.0	14.1	8.8
10/31/2000	79	66	49	25.42	37.0	37.8	14.1	7.8
			2		37.0	57.8	14.3	7.0
Minimum	78	64	37	0.00	37.0	37.0	14.1	6.0
Maximum	81	71	57	39.35	38.0	38.0	19.2	9.0
Average	79	66	50	16.09	37.4	37.4	16.2	7.9
Total				981.57		7,.4	10.2	1.7

VECTOR ATTRACTION REDUCT	TON AND PATHOGEN REDUCTION
Address Quality Control Plant Address 5950 Acorn St. City Riverside	2. Facility Owner's Name City of Riverside Address 3900 Main Street City Riverside State CA Zip 92522
 Monitoring Period: From 11/01/00 To 12/31/00 NPDES Permit No: <u>CA 0105350</u> 	
5. Facility Latitude: 33° 57′ 55″ N	Facility Longitude: 117° 27' 28" W
Site Map Attached Yes	No
units or activities and describes operating preparameters such as treatment capacity, sludg percent solids. Also include a description of operating parameters.	action procedures that identifies specific treatment ocedures. Include target values for all operating se detention time, operating temperature, pH, and standard procedures for regular evaluation of the Schematic diagram or drawing attached.
VECTOR ATTRACTION REDUCTION	
reduced by at least 38%) to demonstrate com a. Alternative 1 - Time and Temperature	Mass of volatile solids in the sewage sludge been appliance with the regulations. wage sludge been reduced by at least 38%?
Frequency volatile solids reduction is vo	erified 36 per period.
	3 - ALTERNATIVE 2 [40 CFR 503.32 (B) (3)]
8. Anaerobic Digestion a. Was the residence time for the sewage sluat 20°C? 	adge between 15 days at 35°C to 55°C and 60 days

b. Provide the frequency of temperature measurements (i.e. continuous, 1 per hour, etc.)

1/shift, 3 shifts/day

c. Provide the average detention time and digester operating temperature for the reporting

period 16.6 days at 37.0°C.

yes

MONITORING PERIOD

November 1, 2000 through December 31, 2000

Parameter	Table 3 Pollutant Concentrations	Maximum Pollutant Concentration MG/KG	Frequency of Analysis	Sample Type, Grab or Composite	Analytical Method
Arsenic	41	7.02	2	Composite	6010B ICP
Cadmium	39	3.66	2	Composite	6010B ICP
Chromium	1200	42.5	2	Composite	6010B ICP
Copper	1500	786	2	Composite	6010B ICP
Lead	300	50.8	2	Composite	6010B ICP
Mercury	17	0.52	2	Composite	245.5
Molybdenum		19.7	2	Composite	6010B ICP
Nickel	420	19.4	2	Composite	6010B ICP
Selenium	36	7.48	2	Composite	6010B ICP
Zinc	2800	758	2	Composite	6010B ICP

Certification

I certify under penalty of law that this document and all attachments were prepared under my supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information submitted, it is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information.

John A. Claus, Operations Manager	(909) 351-6187
Name and Title (Type or print)	Area Code and Phone
A-Ca	1/29/01
Signature	Date Signed

Table 3 concentration limits are referenced to demonstrate that the sludge is of exceptional quality in regards to metals.

Monthly Sludge Disposal Report

<u>December</u> Month 2000 Year

During this month, 23.94 tons of Biosolids were removed by our subcontractor, Synagro West, Inc., located at P.O. Box 7027, Corona, CA, 92878-7027. They are currently performing land application of the biosolids. During this month, 604.60 tons of Biosolids were removed by our subcontractor, One Stop Landscape Supply, located at 13024 San Timoteo Canyon Road, Redlands, CA 92373. They are currently performing composting with the biosolids.

Laboratory analysis data is attached certifying the Biosolids generated at this plant to be a clean Class B sludge.

Digester data is attached certifying the Biosolids have met the time and temperature requirements for Class B Pathogen Reduction through Anaerobic Digestion as well as the Vector Attraction requirement of more than 38% volatile solids reduction.

"I certify, under penalty of law, that the Class B pathogen requirements in 503.32(b) and the vector attraction reduction requirement in 503.33(b)1 have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

Signature

Date

01/29/01

Biosolids Processing Data November - December 2000

	Digester Influent	uent Digester Effluent	AverageVolatile	Belt Press Discharge Dry Tons	Digester #1 Temperature °C	Digester #2	Digester	
	Volatile Suspended Solids	Volatile Suspended Solids	Suspended Solids Reduction			Temperature	Detention '	Гіте (days)
DATE	%	- %	%			°C	Measured	Required
11/1/2000	80	66	50	31.75	37.0	37.0	15.0	9.0
11/2/2000	80	66	51	21.40	37.0	37.5	14.8	8.3
11/3/2000	80	66	52	25.80	37.0	37.0	14.5	9.0
11/4/2000				0.00	37.5	37.0	15.2	8.3
11/5/2000				0.00	37.3	37.3	14.8	8.1
11/6/2000	81	66	55	25.53	37.0	37.0	15.3	9.0
11/7/2000	81	65	57	16.52	37.2	37.0	15.8	8.8
11/8/2000	82	65	58	29.00	37.3	37.0	16.9	8.6
11/9/2000	80	66	52	17.89	37.0	37.0	15.8	9.0
11/10/2000	80	66	52	12.21	37.0	37.0	16.9	9.0
11/11/2000				0.00	37.0	37.0	16.7	9.0
11/12/2000	A			0.00	37.2	37.0	17.0	8.8
11/13/2000	85	66	65	25.70	37.0	37.0	16.8	9.0
11/14/2000	81	66	53	24.43	37.0	37.0	17.7	9.0
11/15/2000	82	66	56	35.73	37.3	35.8	16.0	10.3
11/16/2000		66		23.17	37.0	37.0	17.8	9.0
11/17/2000	80	67	49	8.76	37.0	37.0	30.2	9.0
11/18/2000		<u> </u>		0.00	37.0	37.0	17.8	9.0
11/19/2000				0.00	37.0	37.0	17.4	9.0
11/20/2000	77			24.84	37.0	37.0	17.7	9.0
11/21/2000	83	63	66	18.98	37.0	37.0	22.1	9.0
11/22/2000	78	55	65	35.64	37.3	37.3	24.0	8.1
11/23/2000	78	63	51	13.52	37.0	37.0	23.6	9.0
11/24/2000	80	61	61	4.66	37.0	37.0	22.9	9.0
11/25/2000				0.00	37.0	37.0	16.5	9.0
11/26/2000				0.00	37.5	37.3	17.8	7.8
11/27/2000	79	60	59	21.86	37.0	37.0	17.0	9.0
11/28/2000				24.62	37.0	37.0	17.9	9.0
11/29/2000	77	67	38	23.72	37.6	37.6	15.3	7.2
11/30/2000	80	56	67	18.00	37.0	37.0	14.8	9.0
12/1/2000	79	67	47	9.38	37.0	37.0	17.7	9.0
12/2/2000				0.00	37.0	37.0	15.2	9.0
12/3/2000				0.00	37.6	37.5	14.4	7.4
12/4/2000	79	65	51	25.76	37.0	37.2	14.0	8.8
12/5/2000	81	66	56	24.10	37.0	37.0	13.8	9.0
12/6/2000	81	65	56	31.90	37.0	37.0	14.7	9.0
12/7/2000	81	67	51	28.29	37.0	37.2	14.1	8.8
12/8/2000	80	66	53	12.37	37.5	37.5	13.7	7.5

Biosolids Processing Data November - December 2000

	Digester Influent	Digester Effluent	AverageVolatile	Belt Press Discharge	Digester #1	Digester #2	Dige	ester
	Volatile Suspended Solids	Volatile Suspended Solids	Suspended Solids Reduction		Temperature	Temperature	Detention 7	Гime (days)
DATE	%	%	%	Dry Tons	°C	°C	Measured	Required
12/9/2000				0.00	37.2	37.2	13.8	8.4
12/10/2000		\$\tag{\text{\tint{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex		0.00	37.0	37.0	20.1	9.0
12/11/2000	81	66	54	23.82	37.0	37.0	16.9	9.0
12/12/2000	81	68	51	22.90	37.0	37.0	15.4	9.0
12/13/2000	81	65	56	31.28	37.0	37.0	15.3	9.0
12/14/2000	81			22.61	37.0	37.0	16.8	9.0
12/15/2000	81	65	57	24.38	37.0	37.0	16.8	9.0
12/16/2000				0.00	37.0	37.0	17.7	9.0
12/17/2000				0.00	37.8	37.9	16.9	6.5
12/18/2000	80	66	53	25.80	37.0	37.6	21.0	8.1
12/19/2000	80	66	52	25.78	37.0	37.0	16.2	9.0
12/20/2000	81	69	47	39.67	37.0	37.0	17.9	9.0
12/21/2000	81	68	49	20.13	37.0	37.0	16.6	9.0
12/22/2000	80	67	50	11.02	37.0	37.0	17.8	9.0
12/23/2000		0		0.00	37.5	37.5	14.5	7.5
12/24/2000				0.00	37.5	37.5	14.5	7.5
12/25/2000				27.99	37.5	37.5	14.0	7.5
12/26/2000	81	65	58	25.23	37.2	37.0	14.4	8.8
12/27/2000	81	67	52	47.74	36.8	36.8	13.9	9.5
12/28/2000	80			7.04	36.0	36.5	13.6	11.3
12/29/2000	76			0.00	36.0	35.5	13.8	12.8
12/30/2000				19.63	35.5	36.0	13.5	12.8
12/31/2000				0.00	36.6	36.5	14.8	10.4
Minimum	76	55	38	0.00	35.5	35.5	13.5	6.5
Maximum	85	69	67	47.74	37.8	37.9	30.2	12.8
Average	80	65	54	16.24	37.0	37.0	16.6	8.9
Total				990.53				